Performance Data Sheet

AE4425Y-FZ1A

General Information

Model	AE4425Y-FZ1A	**Refrigerant**	R-134a
Test Condition	EN12900 ASERCOM	**Performance Test Voltage**	220V ~ 50HZ
Return Gas	20°C (68°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°C)		Condensing Temperature (°C)			
		30	40	50	60
-15	Btu/h	1710	1460	1230	1020
	Watts (Power)	271	288	302	311
	Amps	2.67	2.70	2.71	2.71
	Lb/h	22.4	20.9	19.5	18.4
-10	Btu/h	2180	1890	1600	1330
	Watts (Power)	290	312	331	346
	Amps	2.70	2.73	2.77	2.79
	Lb/h	28.7	27.1	25.4	23.8
-6.7	Btu/h	2540	2220	1890	1570
	Watts (Power)	304	328	351	370
	Amps	2.72	2.77	2.81	2.85
	Lb/h	33.6	31.8	29.9	28.0
-5	Btu/h	2740	2400	2050	1710
	Watts (Power)	310	337	362	383
	Amps	2.74	2.78	2.83	2.88
	Lb/h	36.3	34.5	32.5	30.5
0	Btu/h	3400	2990	2570	2150
	Watts (Power)	329	361	392	421
	Amps	2.78	2.84	2.91	2.98
	Lb/h	45.3	43.4	41.1	38.7
5	Btu/h	4170	3680	3170	2660
	Watts (Power)	344	383	421	458
	Amps	2.82	2.90	2.99	3.09
	Lb/h	55.9	53.9	51.4	48.6
7.2	Btu/h	4540	4010	3470	2920
	Watts (Power)	350	391	433	474
	Amps	2.84	2.92	3.03	3.14
	Lb/h	61.1	59.0	56.5	53.5
10	Btu/h	5040	4470	3870	3270
	Watts (Power)	355	401	448	493
	Amps	2.85	2.95	3.07	3.20
	Lb/h	68.2	66.2	63.5	60.3

15	Btu/h	6040	5370	4680	3960
	Watts (Power)	361	415	470	525
	Amps	2.88	3.00	3.15	3.31
	Lb/h	82.5	80.4	77.5	74.0

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	4.441585E+03	2.463917E+02	2.762885E+00	4.884869E+01
C2	1.756639E+02	6.420573E-01	3.895616E-03	1.841388E+00
C3	-2.729852E+01	1.968300E+00	-5.865424E-03	-4.912851E-02
C4	2.661906E+00	-1.023878E-01	-1.472259E-04	3.004821E-02
C5	-9.122450E-01	7.025442E-02	-1.837935E-07	8.129872E-03
C6	-3.085982E-01	3.585090E-02	2.672622E-04	-2.576329E-03
C7	1.075845E-02	-1.882997E-03	-6.320232E-06	2.192317E-04
C8	-1.907069E-02	1.477910E-03	4.718652E-06	5.564460E-05
C9	-7.055070E-03	7.505685E-04	4.849225E-06	-1.459407E-04
C10	2.104463E-03	-3.375648E-04	-1.807700E-06	9.551271E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

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AE4425Y-FZ1A

General Information

Model	AE4425Y-FZ1A	**Refrigerant**	R-134a
Test Condition	EN12900 ASERCOM	**Performance Test Voltage**	220V ~ 50HZ
Return Gas	20°C (68°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
5	Btu/h	1790	1650	1520	1380	1260	1130	1020
	Watts	264	275	284	293	300	306	311
	Amps	2.67	2.68	2.69	2.70	2.71	2.72	2.71
	Lb/h	22.9	22.1	21.2	20.4	19.7	19.0	18.4
10	Btu/h	2050	1900	1750	1600	1460	1320	1190
	Watts	275	286	297	307	316	324	330
	Amps	2.68	2.69	2.71	2.72	2.74	2.75	2.75
	Lb/h	26.3	25.4	24.5	23.6	22.8	22.0	21.2
15	Btu/h	2340	2170	2010	1840	1680	1520	1370
	Watts	285	298	310	322	332	342	350
	Amps	2.70	2.71	2.73	2.75	2.77	2.79	2.80
	Lb/h	30.1	29.1	28.2	27.2	26.3	25.4	24.4
20	Btu/h	2650	2470	2290	2110	1930	1750	1570
	Watts	295	309	323	336	349	360	370
	Amps	2.71	2.73	2.76	2.78	2.81	2.83	2.85
	Lb/h	34.2	33.2	32.3	31.2	30.2	29.1	28.1
25	Btu/h	3000	2800	2600	2400	2200	2000	1800
	Watts	305	321	336	351	366	379	391
	Amps	2.73	2.76	2.78	2.81	2.85	2.88	2.90
	Lb/h	38.8	37.8	36.8	35.7	34.5	33.4	32.2
30	Btu/h	3370	3160	2940	2720	2490	2270	2040
	Watts	315	332	349	366	382	398	412
	Amps	2.75	2.78	2.81	2.85	2.89	2.92	2.96
	Lb/h	43.8	42.8	41.7	40.6	39.3	38.1	36.7
35	Btu/h	3780	3550	3310	3060	2810	2560	2310
	Watts	323	342	361	380	399	416	433
	Amps	2.77	2.81	2.84	2.89	2.93	2.97	3.02
	Lb/h	49.2	48.3	47.2	45.9	44.6	43.3	41.8
40	Btu/h	4230	3970	3710	3430	3160	2880	2600
	Watts	330	351	372	393	414	434	454
	Amps	2.79	2.83	2.87	2.92	2.97	3.03	3.08
	Lb/h	55.2	54.2	53.1	51.9	50.5	49.0	47.4

45	Btu/h	4710	4430	4140	3840	3530	3230	2920
	Watts	336	359	382	406	429	452	474
	Amps	2.81	2.85	2.90	2.96	3.02	3.08	3.14
	Lb/h	61.7	60.8	59.6	58.3	56.8	55.3	53.5
50	Btu/h	5220	4920	4600	4270	3940	3600	3270
	Watts	340	365	391	417	443	468	493
	Amps	2.83	2.87	2.93	2.99	3.06	3.13	3.20
	Lb/h	68.8	67.8	66.7	65.3	63.8	62.1	60.3
55	Btu/h	5780	5440	5100	4740	4380	4010	3640
	Watts	343	370	398	426	455	483	511
	Amps	2.84	2.89	2.96	3.03	3.10	3.18	3.26
	Lb/h	76.5	75.5	74.3	72.9	71.4	69.6	67.6
60	Btu/h	6370	6010	5630	5250	4850	4450	4040
	Watts	343	373	403	434	466	497	528
	Amps	2.85	2.91	2.98	3.06	3.14	3.23	3.32
	Lb/h	84.7	83.8	82.6	81.2	79.6	77.7	75.7

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.333944E+03	2.011158E+02	2.827693E+00	2.746011E+01
C2	5.175132E+01	1.344215E+00	4.253508E-03	4.585491E-01
C3	-4.777718E+00	3.672122E-02	-6.956814E-03	-9.314623E-02
C4	7.491223E-01	-8.714591E-03	3.270555E-05	5.360067E-03
C5	5.145369E-03	-2.771717E-03	-1.050540E-04	3.500123E-03
C6	-9.117678E-02	1.250337E-02	8.563718E-05	-1.516139E-04
C7	1.844728E-03	-3.228732E-04	-1.083716E-06	3.759117E-05
C8	-3.270009E-03	2.534139E-04	8.090967E-07	9.541255E-06
C9	-1.209717E-03	1.286983E-04	8.314857E-07	-2.502412E-05
C10	3.608475E-04	-5.788149E-05	-3.099623E-07	1.637735E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

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AE4425Y-FZ1A

General Information

Model	AE4425Y-FZ1A	**Refrigerant**	R-134a
Test Condition	EN12900 ASERCOM	**Performance Test Voltage**	240V ~ 50HZ
Return Gas	20°C (68°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°C)		Condensing Temperature (°C)			
		30	40	50	60
-15	Watts (Capacity)	324	295	237	164
	Watts (Power)	164	179	182	177
	Amps	1.30	1.34	1.34	1.33
	Lb/h	7.90	7.98	7.16	5.86
-10	Watts (Capacity)	407	372	312	239
	Watts (Power)	175	194	204	206
	Amps	1.33	1.38	1.40	1.41
	Lb/h	9.69	9.87	9.22	8.15
-6.7	Watts (Capacity)	469	428	363	288
	Watts (Power)	181	203	217	223
	Amps	1.35	1.41	1.44	1.47
	Lb/h	11.0	11.2	10.6	9.62
-5	Watts (Capacity)	505	459	390	313
	Watts (Power)	184	208	223	232
	Amps	1.36	1.42	1.47	1.50
	Lb/h	11.7	11.9	11.3	10.4
0	Watts (Capacity)	622	560	479	392
	Watts (Power)	190	219	241	257
	Amps	1.38	1.46	1.52	1.58
	Lb/h	14.1	14.2	13.6	12.7
5	Watts (Capacity)	765	683	583	481
	Watts (Power)	193	228	256	281
	Amps	1.40	1.49	1.58	1.67
	Lb/h	17.1	16.9	16.2	15.2
7.2	Watts (Capacity)	838	745	636	525
	Watts (Power)	194	231	262	290

	Amps	1.40	1.50	1.60	1.70
	Lb/h	18.6	18.3	17.5	16.4
10	Watts (Capacity)	940	832	709	587
	Watts (Power)	194	234	269	302
	Amps	1.40	1.51	1.63	1.75
	Lb/h	20.7	20.2	19.3	18.1
15	Watts (Capacity)	1150	1010	863	716
	Watts (Power)	192	238	280	321
	Amps	1.40	1.53	1.67	1.82
	Lb/h	25.1	24.2	22.9	21.5

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	5.44633E+02	3.35213E+01	1.11084E+00	5.67227E+00
C2	4.04177E+01	-5.67288E-01	1.69483E-03	7.03183E-01
C3	1.19475E+01	7.42265E+00	1.02363E-02	5.69088E-01
C4	8.19850E-01	-6.53801E-02	-2.40257E-04	1.65648E-02
C5	-5.74194E-01	1.13918E-02	-1.10490E-04	-7.84262E-03
C6	-3.83340E-01	-8.63445E-02	-4.04226E-05	-1.16183E-02
C7	7.86127E-03	-1.01714E-04	-2.68991E-06	1.90140E-04
C8	-1.00750E-02	4.69049E-04	3.28004E-06	-2.01662E-04
C9	2.95774E-03	1.31104E-03	6.13312E-06	6.86393E-05
C10	2.36185E-03	4.14148E-04	2.25868E-08	6.80460E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

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